Deluge Valves
Size 2"-12"

FIG·9266

Specifications

- Automatic valve, hydraulically activated by the pressure of the pipeline, direct diaphragm sealing weir type with proven reliable design.
- Design for use in any water and foam supply application.
- The valve consists of three major components: body, cover and diaphragm. The only moving part is the diaphragm.
- Fast opening and cushioned closure operation.
- Will regulate from near zero flow.
- Exceptionally low pressure losses.
- Flanges to ANSI B16.1, 125 lb. (other types available on request) .
- UL Listed.
- Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard.

Working Pressure

- 300PSI .

Working Temperature

- 0°C to 68°C for electrical signals.
- 4.4°C to 68°C for wet lead nozzle pipe.

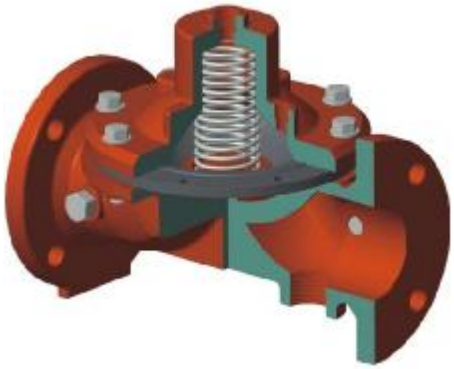
Corrosion Protection

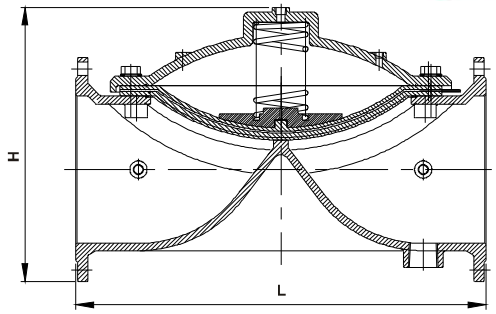
- Internally and externally liquid epoxy painted or fusion bonded epoxy powder coated (FBE).

Notes:

Design and material are subject to change without notice.

Schematic





Connection: FL*FL/FL*Gr/Gr*Gr

Material Specifications

Component	Material	ASTM Spec.
Body	Ductile Iron	A536 65-45-12
Cover	Ductile Iron	A536 65-45-12
Elastomers	Rubber	NR / NBR / EPDM / Buna-N
Control Trim & Accesories	Brass / Stainless Steel	

Dimensions (mm)

Size		L		H	
mm	inch	mm	inch	mm	inch
DN 50	2"	233	9.17	188	7.40
DN 65	2-1/2"	290	11.42	200	7.87
DN 80	3"	310	12.20	260	10.24
DN 100	4"	356	14.02	274	10.79
DN 125	5"	370	14.57	292	11.50
DN 150	6"	436	17.17	332	13.07
DN 200	8"	530	20.87	424	16.69
DN 250	10"	636	25.04	483	19.01
DN 300	12"	835	32.87	558	21.97

Working principle and operation

- The WEFLO 9266 Deluge Valve is a diaphragm style valve that depends upon water pressure in the Diaphragm Chamber to hold the Diaphragm closed against the water supply pressure.
- When the Valve is set for service, the Diaphragm Chamber is pressurized through the trim connections from the inlet side of the system's main control valve.
- Opening an actuation device, for example the solenoid valve in the Electric Actuation Trim, releases water from the Diaphragm Chamber faster than it can be replenished through restriction provided by the diaphragm chamber supply connection provided in the applicable trim arrangements.
- This results in a rapid pressure drop in the Diaphragm Chamber and the Force differential applied through the Diaphragm to hold the Diaphragm in the set position is reduced below the valve trip point.
- The water supply pressure then forces the Diaphragm open, permitting water to flow into the system piping

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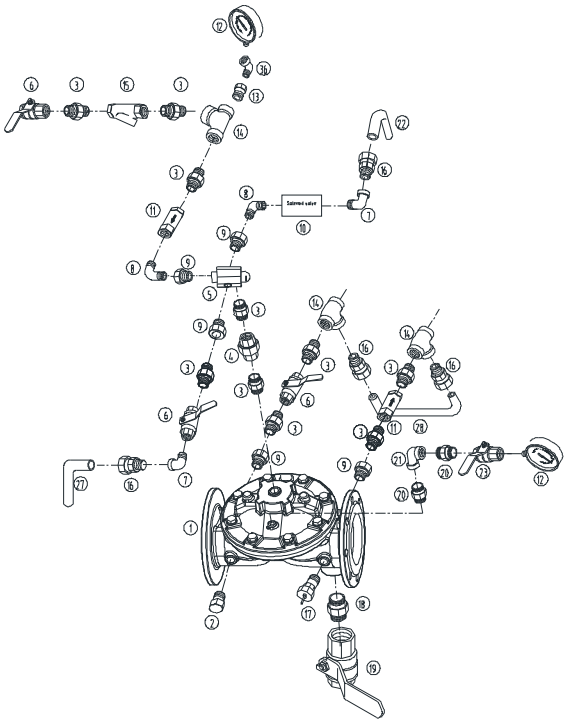
FIG · 9266

Schematic

Accessories



Material Specifications

No.	Part Name	Materiasl
1	Main Valve	Ductile Iron
2	½" Plug	Malleable Iron
3	¼" Nipple	Malleable Iron
4	½" Union	Malleable Iron
5	Water Relay	
6	½"Ball Valve	Brass
7	¼" 90° Elbow	Malleable Iron
8	¼" 90° Elbow	Malleable Iron
9	Tube	Malleable Iron
10	½" Nipple	Brass
11	½" Swing Check Valve	Brass
12	Water Pressure Gauge	
13	½"*¼" Reducing Joint	Malleable Iron
14	½" Tee	Malleable Iron
15	½" Y-Strainer	Brass
16	Card Sleeve Joint	SS 304
17	Drip Valve	
18	1-¼" Nipple(2"-3"),2"Nipple(4"-12")	Malleable Iron
19	1-¼"Angle Valve(2"-3"),2"Angle(4"-12")	Brass
20	¼" Nipple	Malleable Iron
21	¼" 90° Eblow	Malleable Iron
22	Tube1	SS 304
23	¼" Ball Valve	Brass
25	¾" Nipple	Malleable Iron
26	¾"*½" 90° Elbow	Malleable Iron
27	Tube 2	SS 304
28	Tube 3	SS 30

Installation

- Install the deluge valve in a readily visible and accessible location.
- Before trim installation, clean all nipples, fittings, and devices to ensure they are free of scale and burrs. Use pipe-thread sealant sparingly on male pipe threads only.
- Exercise care to ensure that check valves, strainers, and globe valves are installed with the flow arrows in the proper direction.
- Drain tubing must be installed with smooth bends that will not restrict flow.
- Ensure suitable provision exists for disposal of drain water (as in the case of a flow testvia the Main Drain Valve). Direct drain water so that it can not cause accidental damage to property or danger to persons.
- Connect the Diaphragm Chamber Supply Control Valve to the inlet side of the Main Control/Shut-Off Valve to facilitate setting the valve.
- The connection to the Diaphragm Chamber Supply Control Valve should be as short as practical and from the same water supply as the system.
- Make conduit and electrical connections in accordance with the requirements of the authority having jurisdiction and/or the National Electrical Code (NFPA 70).

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